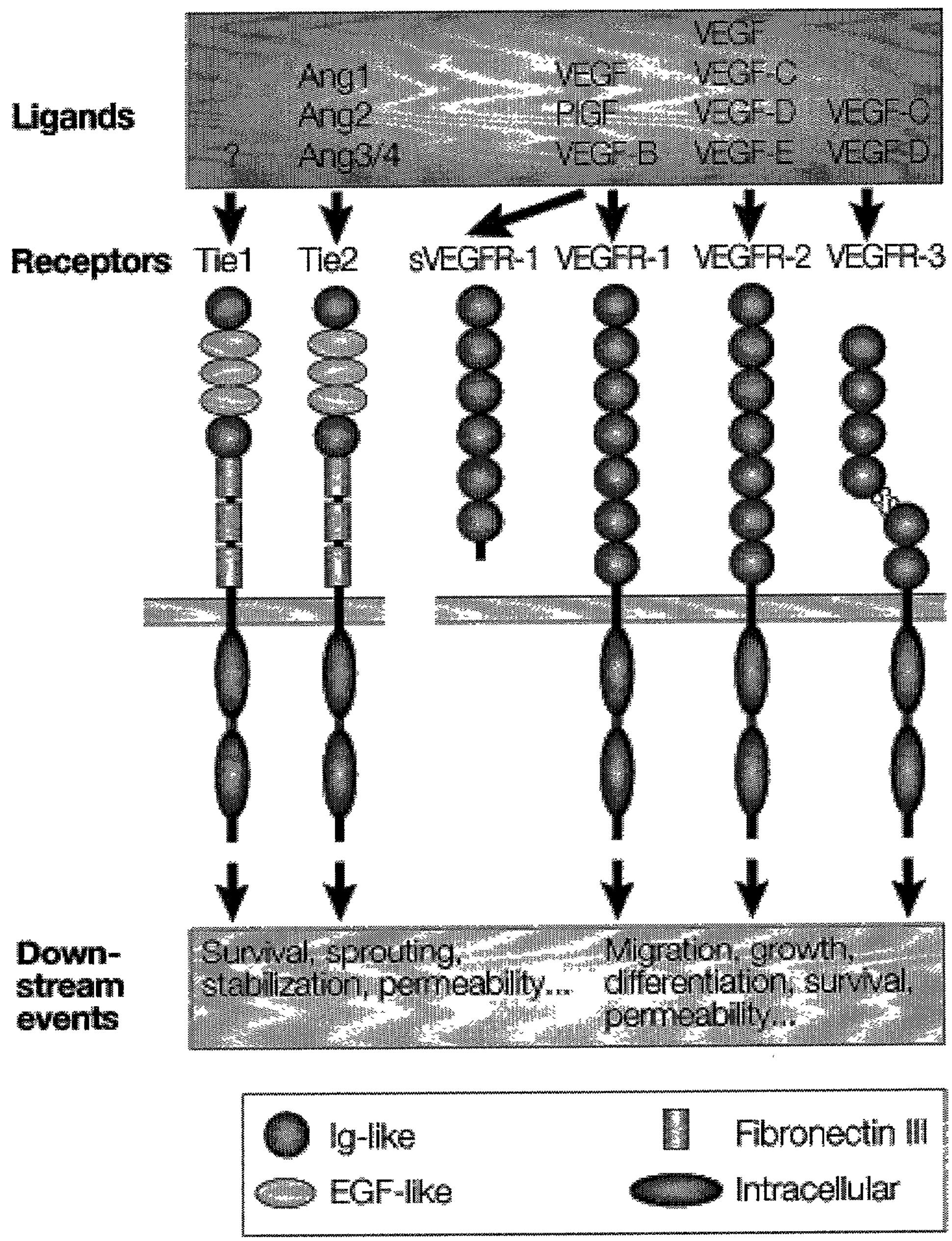

FIGURE 1

```
1    ACCCACGCGC AGCGGCCGGA GATGCAGCGG GGCGCCGCGC TGTGCCTGCG ACTGTGGCTC
61   TGCCTGGGAC TCCTGGACGG CCTGGTGAGT GACTACTCCA TGACCCCCCC GACCTTGAAC
121  ATCACGGAGG AGTCACACGT CATCGACACC GGTGACAGCC TGTCCATCTC CTGCAGGGGA
181  CAGCACCCCC TCGAGTGGGC TTGGCCAGGA GCTCAGGAGG CGCCAGCCAC CGGAGACAAG
241  GACAGCGAGG ACACGGGGGT GGTGCGAGAC TGCGAGGGCA CAGACGCCAG GCCCTACTGC
301  AAGGTGTTGC TGCTGCACGA GGTACATGCC AACGACACAG GCAGCTACGT CTGCTACTAC
361  AAGTACATCA AGGCACGCAT CGAGGGCACC ACGGCCGCCA GCTCCTACGT GTTCGTGAGA
421  GACTTTGAGC AGCCATTCAT CAACAAGCCT GACACGCTCT TGGTCAACAG GAAGGACGCC
481  ATGTGGGTGC CCTGTCTGGT GTCCATCCCC GGCCTCAATG TCACGCTGCG CTCGCAAAGC
541  TCGGTGCTGT GGCCAGACGG GCAGGAGGTG GTGTGGGATG ACCGGCGGGG CATGCTCGTG
601  TCCACGCCAC TGCTGCACGA TGCCCTGTAC CTGCAGTGCG AGACCACCTG GGGAGACCAG
661  GACTTCCTTT CCAACCCCTT CCTGGTGCAC ATCACAGGCA ACGAGCTCTA TGACATCCAG
721  CTGTTGCCCA GGAAGTCGCT GGAGCTGCTG GTAGGGGAGA AGCTGGTCCT CAACTGCACC
781  GTGTGGGCTG AGTTTAACTC AGGTGTCACC TTTGACTGGG ACTACCCAGG GAAGCAGGCA
841  GAGCGGGGTA AGTGGGTGCC CGAGCGACGC TCCCAACAGA CCCACACAGA ACTCTCCAGC
901  ATCCTGACCA TCCACAACGT CAGCCAGCAC GACCTGGGCT CGTATGTGTG CAAGGCCAAC
961  AACGGCATCC AGCGATTTCG GGAGAGCACC GAGGTCATTG TGCATGAAAA TCCCTTCATC
1021 AGCGTCGAGT GGCTCAAAGG ACCCATCCTG GAGGCCACGG CAGGAGACGA GCTGGTGAAG
1081 CTGCCCGTGA AGCTGGCAGC GTACCCCCCG CCCGAGTTCC AGTGGTACAA GGATGGAAAG
1141 GCACTGTCCG GGCGCCACAG TCCACATGCC CTGGTGCTCA AGGAGGTGAC AGAGGCCAGC
1201 ACAGGCACCT ACACCCTCGC CCTGTGGAAC TCCGCTGCTG GCCTGAGGCG CAACATCAGC
1261 CTGGAGCTGG TGGTGAATGT GCCCCCCCAG ATACATGAGA AGGAGGCCTC CTCCCCCAGC
1321 ATCTACTCGC GTCACAGCCG CCAGGCCCTC ACCTGCACGG CCTACGGGGT GCCCCTGCCT
1381 CTCAGCATCC AGTGGCACTG GCGGCCCTGG ACACCCTGCA AGATGTTTGC CCAGCGTAGT
1441 CTCCGGCGGC GGCAGCAGCA AGACCTCATG CCACAGTGCC GTGACTGGAG GGCGGTGACC
1501 ACGCAGGATG CCGTGAACCC CATCGAGAGC CTGGACACCT GGACCGAGTT TGTGGAGGGA
1561 AAGAATAAGA CTGTGAGCAA GCTGGTGATC CAGAATGCCA ACGTGTCTGC CATGTACAAG
1621 TGTGTGGTCT CCAACAAGGT GGGCCAGGAT GAGCGGCTCA TCTACTTCTA TGTGACCACC
1681 ATCCCCGACG GCTTCACCAT CGAATCCAAG CCATCCGAGG AGCTACTAGA GGGCCAGCCG
1741 GTGCTCCTGA GCTGCCAAGC CGACAGCTAC AAGTACGAGC ATCTGCGCTG GTACCGCCTC
1801 AACCTGTCCA CGCTGCACGA TGCGCACGGG AACCCGCTTC TGCTCGACTG CAAGAACGTG
1861 CATCTGTTCG CCACCCCTCT GGCCGCCAGC CTGGAGGAGG TGGCACCTGG GGCGCGCCAC
1921 GCCACGCTCA GCCTGAGTAT CCCCCGCGTC GCGCCCGAGC ACGAGGGCCA CTATGTGTGC
1981 GAAGTGCAAG ACCGGCGCAG CCATGACAAG CACTGCCACA AGAAGTACCT GTCGGTGCAG
2041 GCCCTGGAAG CCCCTCGGCT CACGCAGAAC TTGACCGACC TCCTGGTGAA CGTGAGCGAC
2101 TCGCTGGAGA TGCAGTGCTT GGTGGCCGGA GCGCACGCGC CCAGCATCGT GTGGTACAAA
2161 GACGAGAGGC TGCTGGAGGA AAAGTCTGGA GTCGACTTGG CGGACTCCAA CCAGAAGCTG
2221 AGCATCCAGC GCGTGCGCGA GGAGGATGCG GGACCGTATC TGTGCAGCGT GTGCAGACCC
2281 AAGGGCTGCG TCAACTCCTC CGCCAGCGTG GCCGTGGAAG GCTCCGAGGA TAAGGGCAGC
2341 ATGGAGATCG TGATCCTTGT CGGTACCGGC GTCATCGCTG TCTTCTTCTG GGTCCTCCTC
2401 CTCCTCATCT TCTGTAACAT GAGGAGGCCG GCCCACGCAG ACATCAAGAC GGGCTACCTG
2461 TCCATCATCA TGGACCCCGG GGAGGTGCCT CTGGAGGAGC AATGCGAATA CCTGTCCTAC
2521 GATGCCAGCC AGTGGGAATT CCCCCGAGAG CGGCTGCACC TGGGGAGAGT GCTCGGCTAC
2581 GGCGCCTTCG GGAAGGTGGT GGAAGCCTCC GCTTTCGGCA TCCACAAGGG CAGCAGCTGT
2641 GACACCGTGG CCGTGAAAAT GCTGAAAGAG GGCGCCACGG CCAGCGAGCA GCGCGCGCTG
2701 ATGTCGGAGC TCAAGATCCT CATTCACATC GGCAACCACC TCAACGTGGT CAACCTCCTC
2761 GGGGCGTGCA CCAAGCCGCA GGGCCCCCTC ATGGTGATCG TGGAGTTCTG CAAGTACGGC
2821 AACCTCTCCA ACTTCCTGCG CGCCAAGCGG GACGCCTTCA GCCCCTGCGC GGAGAAGTCT
2881 CCCGAGCAGC GCGGACGCTT CCGCGCCATG GTGGAGCTCG CCAGGCTGGA TCGGAGGCGG
2941 CCGGGGAGCA GCGACAGGGT CCTCTTCGCG CGGTTCTCGA AGACCGAGGG CGGAGCGAGG
3001 CGGGCTTCTC CAGACCAAGA AGCTGAGGAC CTGTGGCTGA GCCCGCTGAC CATGGAAGAT
3061 CTTGTCTGCT ACAGCTTCCA GGTGGCCAGA GGGATGGAGT TCCTGGCTTC CCGAAAGTGC
3121 ATCCACAGAG ACCTGGCTGC TCGGAACATT CTGCTGTCGG AAAGCGACGT GGTGAAGATC
3181 TGTGACTTTG GCCTTGCCCG GGACATCTAC AAAGACCCCG ACTACGTCCG CAAGGGCAGT
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FIGURE 2A (PAGE 1 OF 2)

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3241 GCCCGGCTGC CCCTGAAGTG GATGGCCCCT GAAAGCATCT TCGACAAGGT GTACACCACG
3301 CAGAGTGACG TGTGGTCCTT TGGGGTGCTT CTCTGGGAGA TCTTCTCTCT GGGGGCCTCC
3361 CCGTACCCTG GGGTGCAGAT CAATGAGGAG TTCTGCCAGC GCGTGAGAGA CGGCACAAGG
3421 ATGAGGGCCC CGGAGCTGGC CACTCCCGCC ATACGCCACA TCATGCTGAA CTGCTGGTCC
3481 GGAGACCCCA AGGCGAGACC TGCATTCTCG GACCTGGTGG AGATCCTGGG GGACCTGCTC
3541 CAGGGCAGGG GCCTGCAAGA GGAAGAGGAG GTCTGCATGG CCCCGCGCAG CTCTCAGAGC
3601 TCAGAAGAGG GCAGCTTCTC GCAGGTGTCC ACCATGGCCC TACACATCGC CCAGGCTGAC
3661 GCTGAGGACA GCCCGCCAAG CCTGCAGCGC CACAGCCTGG CCGCCAGGTA TTACAACTGG
3721 GTGTCCTTTC CCGGGTGCCT GGCCAGAGGG GCTGAGACCC GTGGTTCCTC CAGGATGAAG
3781 ACATTTGAGG AATTCCCCAT GACCCCAACG ACCTACAAAG GCTCTGTGGA CAACCAGACA
3841 GACAGTGGGA TGGTGCTGGC CTCGGAGGAG TTTGAGCAGA TAGAGAGCAG GCATAGACAA
3901 GAAAGCGGCT TCAGCTGTAA AGGACCTGGC CAGAATGTGG CTGTGACCAG GGCACACCCT
3961 GACTCCCAAG GGAGGCGGCG GCGGCCTGAG CGGGGGGCCC GAGGAGGCCA GGTGTTTTAC
4021 AACAGCGAGT ATGGGGAGCT GTCGGAGCCA AGCGAGGAGG ACCACTGCTC CCCGTCTGCC
4081 CGCGTGACTT TCTTCACAGA CAACAGCTAC TAA
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FIGURE 2A (PAGE 2 OF 2)

1	MQRGAALCLR	LWLCLGLLDG	LVSGYSMTPP	TLNITEESHV	IDTGDSLSIS	CRGQHPLEWA
61	WPGAQEAPAT	GDKDSEDTGV	VRDCEGTDAR	PYCKVLLLHE	VHANDTGSYV	CYYKYIKARI
121	EGTTAASSYV	FVRDFEQPFI	NKPDTLLVNR	KDAMWVPCLV	SIPGLNVTLR	SQSSVLWPDG
181	QEVVWDDRRG	MLVSTPLLHD	ALYLQCETTW	GDQDFLSNPF	LVHITGNELY	DIQLLPRKSL
241	ELLVGEKLVL	NCTVWAEFNS	GVTFDWDYPG	KQAERGKWVP	ERRSQQTHTE	LSSILTIHNV
301	SQHDLGSYVC	KANNGIQRFR	ESTEVIVHEN	PFISVEWLKG	PILEATAGDE	LVKLPVKLAA
361	YPPPEFQWYK	DGKALSGRHS	PHALVLKEVT	EASTGTYTLA	LWNSAAGLRR	NISLELVVNV
421	PPQIHEKEAS	SPSIYSRHSR	QALTCTAYGV	PLPLSIQWHW	RPWTPCKMFA	QRSLRRRQQQ
481	DLMPQCRDWR	AVTTQDAVNP	IESLDTWTEF	VEGKNKTVSK	LVIQNANVSA	MYKCVVSNKV
541	GQDERLIYFY	VTTIPDGFTI	ESKPSEELLE	GQPVLLSCQA	DSYKYEHLRW	YRLNLSTLHD
601	AHGNPLLLDC	KNVHLFATPL	AASLEEVAPG	ARHATLSLSI	PRVAPEHEGH	YVCEVQDRRS
661	HDKHCHKKYL	SVQALEAPRL	TQNLTDLLVN	VSDSLEMQCL	VAGAHAPSIV	WYKDERLLEE
721	KSGVDLADSN	QKLSIQRVRE	EDAGRYLCSV	CNAKGCVNSS	ASVAVEGSED	KGSMEIVILV
781	GTGVIAVFFW	VLLLLIFCNM	RRPAHADIKT	GYLSIIMDPG	EVPLEEQCEY	LSYDASQWEF
841	PRERLHLGRV	LGYGAFGKVV	EASAFGIHKG	SSCDTVAVKM	LKEGATASEH	RALMSELKIL
901	IHIGNHLNVV	NLLGACTKPQ	GPLMVIVEFC	KYGNLSNFLR	AKRDAFSPCA	EKSPEQRGRF
961	RAMVELARLD	RRRPGSSDRV	LFARFSKTEG	GARRASPDQE	AEDLWLSPLT	MEDLVCYSFQ
1021	VARGMEFLAS	RKCIHRDLAA	RNILLSESDV	VKICDFGLAR	DIYKDPDYVR	KGSARLPLKW
1081	MAPESIFDKV	YTTQSDVWSF	GVLLWEIFSL	GASPYPGVQI	NEEFCQRLRD	GTRMRAPELA
1141	TPAIRRIMLN	CWSGDPKARP	AFSELVEILG	DLLQGRGLQE	EEEVCMAPRS	SQSSEEGSFS
1201	QVSTMALHIA	QADAEDSPPS	LQRHSLAARY	YNWVSFPGCL	ARGAETRGSS	RMKTFEEFPM
1261	TPTTYKGSVD	NQTDSGMVLA	SEEFEQIESR	HRQESGFSCK	GPGQNVAVTR	AHPDSQGRRR
1321	RPERGARGGQ	VFYNSEYGEL	SEPSEEDHCS	PSARVTFFTD	NSY	

FIGURE 2B

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1    CGCGGGGTGT TCTGGTGTCC CCCGCCCCGC CTCTCCAAAA AGCTACACCG ACGCGGACCG
61   CGGCGGCGTC CTCCCTCGCC CTCGCTTCAC CTCGCGGGCT CCGAATGCGG GGAGCTCGGA
121  TGTCCGGTTT CCTGTGAGGC TTTTACCTGA CACCCGCCGC CTTTCCCCGG CACTGGCTGG
181  GAGGGCGCCC TGCAAAGTTG GGAACGCGGA GCCCCGGACC CGCTCCCGCC GCCTCCGGCT
241  CGCCCAGGGG GGGTCGCCGG GAGGAGCCCG GGGGAGAGGG ACCAGGAGGG GCCCGCGGCC
301  TCGCAGGGGC GCCCGCGCCC CCACCCCTGC CCCCGCCAGC GGACCGGTCC CCCACCCCCG
361  GTCCTTCCAC CATGCACTTG CTGGGCTTCT TCTCTGTGGC GTGTTCTCTG CTCGCCGCTG
421  CGCTGCTCCC GGGTCCTCGC GAGGCGCCCG CCGCCGCCGC CGCCTTCGAG TCCGGACTCG
481  ACCTCTCGGA CGCGGAGCCC GACGCGGGCG AGGCCACGGC TTATGCAAGC AAAGATCTGG
541  AGGAGCAGTT ACGGTCTGTG TCCAGTGTAG ATGAACTCAT GACTGTACTC TACCCAGAAT
601  ATTGGAAAAT GTACAAGTGT CAGCTAAGGA AAGGAGGCTG GCAACATAAC AGAGAACAGG
661  CCAACCTCAA CTCAAGGACA GAAGAGACTA TAAAATTTGC TGCAGCACAT TATAATACAG
721  AGATCTTGAA AAGTATTGAT AATGAGTGGA GAAAGACTCA ATGCATGCCA CGGGAGGTGT
781  GTATAGATGT GGGGAAGGAG TTTGGAGTCG CGACAAACAC CTTCTTTAAA CCTCCATGTG
841  TGTCCGTCTA CAGATGTGGG GGTTGCTGCA ATAGTGAGGG GCTGCAGTGC ATGAACACCA
901  GCACGAGCTA CCTCAGCAAG ACGTTATTTG AAATTACAGT GCCTCTCTCT CAAGGCCCCA
961  AACCAGTAAC AATCAGTTTT GCCAATCACA CTTCCTGCCG ATGCATGTCT AAACTGGATG
1021 TTTACAGACA AGTTCATTCC ATTATTAGAC GTTCCCTGCC AGCAACACTA CCACAGTGTC
1081 AGGCAGCGAA CAAGACCTGC CCCACCAATT ACATGTGGAA TAATCACATC TGCAGATGCC
1141 TGGCTCAGGA AGATTTTATG TTTTCCTCGG ATGCTGGAGA TGACTCAACA GATGGATTCC
1201 ATGACATCTG TGGACCAAAC AAGGAGCTGG ATGAAGAGAC CTGTCAGTGT GTCTGCAGAG
1261 CGGGGCTTCG GCCTGCCAGC TGTGGACCCC ACAAAGAACT AGACAGAAAC TCATGCCAGT
1321 GTGTCTGTAA AAACAAACTC TTCCCCAGCC AATGTGGGGC CAACCGAGAA TTTGATGAAA
1381 ACACATGCCA GTGTGTATGT AAAAGAACCT GCCCCAGAAA TCAACCCCTA AATCCTGGAA
1441 AATGTGCCTG TGAATGTACA GAAAGTCCAC AGAAATGCTT GTTAAAAGGA AAGAAGTTCC
1501 ACCACCAAAC ATGCAGCTGT TACAGACGGC CATGTACGAA CCGCCAGAAG GCTTGTGAGC
1561 CAGGATTTTC ATATAGTGAA GAAGTGTGTC GTTGTGTCCC TTCATATTGG AAAAGACCAC
1621 AAATGAGCTA AGATTGTACT GTTTTCCAGT TCATCGATTT TCTATTATGG AAAACTGTGT
1681 TGCCACAGTA GAACTGTCTG TGAACAGAGA GACCCTTGTG GGTCCATGCT AACAAAGACA
1741 AAAGTCTGTC TTTCCTGAAC CATGTGGATA ACTTTACAGA AATGGACTGG AGCTCATCTG
1801 CAAAAGGCCT CTTGTAAAGA CTGGTTTTCT GCCAATGACC AAACAGCCAA GATTTTCCTC
1861 TTGTGATTTC TTTAAAAGAA TGACTATATA ATTTATTTCC ACTAAAAATA TTGTTTCTGC
1921 ATTCATTTTT ATAGCAACAA CAATTGGTAA AACTCACTGT GATCAATATT TTTATATCAT
1981 GCAAAATATG TTTAAAATAA AATGAAAATT GTATT
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FIGURE 3A

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MHLLGFFSVACSLLAAALLPGPREAPAAAAAFESGLDLSDAEPDAGEATAYASKDLEEQLRSVSSVDELM
TVLYPEYWKMYKCQLRKGGWQHNREQANLNSRTEETIKFAAAHYNTEILKSIDNEWRKTQCMPREVCIDV
GKEFGVATNTFFKPPCVSVYRCGGCCNSEGLQCMNTSTSYLSKTLFEITVPLSQGPKPVTISFANHTSCR
CMSKLDVYRQVHSIIRRSLPATLPQCQAANKTCPTNYMWNNHICRCLAQEDFMFSSDAGDDSTDGFHDIC
GPNKELDEETCQCVCRAGLRPASCGPHKELDRNSCQCVCKNKLFPSQCGANREFDENTCQCVCKRTCPRN
QPLNPGKCACECTESPQKCLLKGKKFHHQTCSCYRRPCTNRQKACEPGFSYSEEVCRCVPSYWKRPQMS
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FIGURE 3B